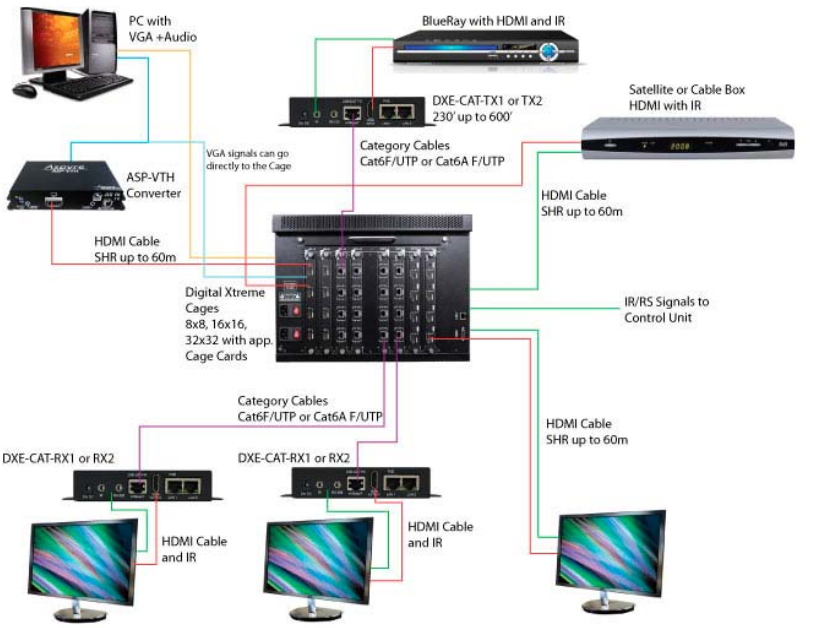
WEST PENN WIRE

AV DEVICES AND SYSTEM SOLUTIONS

Cat1: 2013

WEST PENN WIRE



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West Penn wants your business to succeed with installing cables, connectors and equipment that will exceed your expectation with overall performance. West Penn Wire manufacturers high quality wire and cables for all your AV installations. Our cables include analog RGBHV, Component Video, and digital cables such as HD-SDI and Category Cables (Cat5E, Cat6, and Cat6A). Along with our high confident cables, West Penn provides all the connectiviy to implement the link in the solution. To make the system complete the installation requires AV equipment. West Penn has teamed with Aurora MultiMedia, and SignaMax to allow a total system solution. Aurora Digital Xtreme products are covered by a 3yr. warranty.

Many of our products are HDBaseT certified; These products will allow a TOTAL HDBaseT CERTIFIED system from source to display system.
Our HDBaseT Extenders will allow up to 600' of transmission distance using a HDBaseT Certified Cat6A F/UTP cable.
For additional information concerning HDBaseT - visit - www.hdbaset.org

DigitalXtreme EXTENDERS

HDBaseT Extenders

DXE-CAT-S1

The DXE-CAT-S1 is part of Aurora's expanding Digital Xtreme Series, and one of the new HDBaseT CAT extenders. The DXE-CAT-S1's powerful design provides usability and features not found anywhere else. Single-sided connections for HDMI, Control and Power provide a cleaner wiring and rack mounting solution. The Patents Pending design allows the system to be powered via an AC adapter from either side! With a single CAT 5e/6/6A cable, the DXE-CAT-S1 can go up to 230ft 1080p 60Hz 36bit color depth with bi-directional RS-232, & IR.

- *Transmit HDMI up to 1080p 60Hz 48bit 230ft over one CAT 5e/6/7 cable*
- *Supports 4K x 2K & HDMI 3D*
- *HDCP Compliant*
- *All connectors on one side for easier installation*
- *Bi-directional RS-232 & IR*
- *Power both units from TX or RX side with wall power supply (HDBaseT POE)*
- *Status LED for all connections on front*
- *Various mounting options*
- *Comes in a variety of models for different features & cost savings*
- *Use HDBaseT Certified Cables*

DXE-CAT-TX1	*Transmitter Unit*
DXE-CAT-RX1	*Receiver Unit*

HDBaseT Extenders – Additional 2 LAN

DXE-CAT-S2

The DXE-CAT-S2 is part of Aurora's expanding Digital Xtreme Series, and the first of the new HDBaseT CAT extenders. The DXE-CAT-S2's powerful design provides usability and features not found anywhere else. Single-sided connections for LAN, HDMI, Control and Power provide a cleaner wiring and rack mounting solution. The Patents Pending design allows the system to be powered via POE or AC adapter from either side! With a single CAT 5e/6/6A cable, the DXE-CAT-S2 can go up to 330ft 1080p 60Hz 48bit color depth with bi-directional RS-232, IR, & LAN (up to 600ft with CAT 6a cable using 24bit color depth).

- *Transmit HDMI up to 1080p 60Hz 48bit 330ft over one CAT 5e/6/7 cable*
- *Transmit HDMI up to 1080p 60Hz 24bit 500ft over one CAT 6 cable*
- *Transmit HDMI up to 1080p 60Hz 24bit 600ft over one CAT 6A Shielded cable*
- *Supports 4K x 2K & HDMI 3D*
- *HDCP Compliant*
- *All connectors on one side for easier installation*
- *Bi-directional RS-232 & IR & LAN*
- *Power both units from TX or RX side with wall power supply (HDBaseT PoH)*
- *LAN PoE (Flex Power) can power both TX & RX without wall supplies (Patents Pending)*
- *Status LED for all connections on front*
- *Various mounting options*
- *Comes in a variety of models for different features & cost savings*
- *Use HDBaseT Certified Cables*

DXE-CAT-TX2	*Transmitter Unit*
DXE-CAT-RX2	*Receiver Unit*

HDBaseT Extenders – Web-Control - 8MB - 2 LAN

DXE-CAT-S2L

Right on the heels of the new DXE-CAT-S2 Aurora announces the 'game changing' DXE-CAT-S2L which adds a complete control system (patent-pending) into the HDMI CAT extender. Not only does it carry 1080P HDMI 3D with full 48Bit color-depth (340MHz Bandwidth / 4K x 2K supported) as well as bi-directional RS-232, IR and Ethernet over that same CAT cable up to 330ft (up to 600ft with CAT 6a cable at 24bit color depth), the new S2L allows RS232 and IR to be generated locally at the Tx and Rx sides for complete source/display control.

The DXE-CAT-S2L has 8MB of storage capability for hosting a Web Control page enabling control of any IR or RS232 controllable device. Configurable as Telnet Client/Server, the S2L can also be integrated with existing supporting control systems. Additionally it provides a 2-port Ethernet switch at both ends allowing connectivity of IP capable displays and components. Aurora's exclusive patent-pending Flex-Power™ POE circuit, allows complete powering with no power-supplies.

- *Transmit HDMI up to 1080p 60Hz 48bit 330ft over one CAT 5e/6/6A cable*
- *Transmit HDMI up to 1080p 60Hz 24bit 500ft over one CAT 6 cable*
- *Transmit HDMI up to 1080p 60Hz 24bit 600ft over one CAT 6A Shielded cable*
- *Supports 4K x 2K & HDMI 3D*
- *Built-in web server for hosting custom web control interfaces*
- *HDCP Compliant*
- *All connectors on one side for easier installation*
- *Bi-directional RS-232 & IR & LAN*
- *Power both units from TX or RX side with wall power supply (HDBaseT PoH)*
- *LAN POE (Flex Power) can power both TX & RX without wall supplies (Patents Pending)*
- *Status LED for all connections on front*
- *Various mounting options*
- *Comes in a variety of models for different features & cost savings*
- *Use HDBaseT Certified Cables*

DXE-CAT-TX2L *Transmitter Unit*
DXE-CAT-RX2L *Receiver Unit*

AV Wall Plates (HDBaseT)

DXW-2

HDMI +VGA with Audio

- *2 Gang AV Wall plate- Decora Style*
- *VGA (Component Video) Distribution with Audio*
- *HDMI Digital AV - DVI with Audio*
- *HDBaseT UTP Signal Distribution 330ft.-600ft.*
- *Bi-directional RS-232 and IR*

DXW-2

DXW-2E

HDMI +VGA with Audio + LAN

- *2 Gang AV Wall plate- Decora Style*
- *VGA (Component Video) Distribution with Audio*
- *HDMI Digital AV - DVI with Audio*
- *10/100 BaseT Ethernet - DATA*
- *HDBaseT UTP Signal Distribution 330ft.-600ft.*
- *Bi-directional RS-232 and IR*

Coming Soon!!

DXW-2E

DXW-2EU

HDMI +VGA with Audio + LAN + USB 2.0

- *2 Gang AV Wall plate - Decora Style*
- *VGA (Component Video) Distribution with Audio*
- *HDMI Digital AV - DVI with Audio*
- *10/100 BaseT Ethernet - DATA*
- *2 -USB Connection - Independently 280ft.*
- *HDBaseT UTP Signal Distribution 330ft.-600ft.*
- *Bi-directional RS-232 and IR*

Coming Soon!!

DXW-2EU

DXE-CAT-USB1

USB 2.0 480Mb Cat Extender Transceiver

Coming Soon!!

3RU Rack Unit for DXE-CAT Extenders

DXE-CAT-RK3

The DXE-CAT-RK3 allows you to fit up to 16 DXE extenders in a 3RU rack space. With all connectors on the rear of the DXE unit, this allows for a clean, organized rack installation.

NOTE: DXE-CAT units not included

- *Holds up to 16 DXE series extenders*
- *Vertical unit mounting and cutouts allow for optimal ventilation*
- *Perfect solution for a clean rack installation*

Extenders:

- *DXE-CAT-S1*
- *DXE-CAT-S2*
- *DXE-CAT-S2L*

Optional Accessories

CA0012-1 *Single IR Emitter*
CA0026-1 *Single IR Receiver*
CA0049-1 *IR Blaster*

CA0052-F2T3R *3.5mm TRS to Female DB9 2-TX-3*
CA0052-F3T2R *3.5mm TRS to Female DB9 3-TX-2*

CA0052-M2T3R *3.5mm TRS to Male DB9 2-TX-3*
CA0052-M3T2R *3.5mm TRS to Male DB9 3-TX-2*

HDMI/DVI Products

Adapters and Accessories

HDMI AND DVI ADAPTERS	
Catalog No.	Description
CN-E11HDMI-FF	HDMI F-F ADAPTER
CN-E11HDMI-FFP	HDMI F-F ADAPTER PANEL MOUNT
CN-E11HF-DM	HDMI F - DVI M ADAPTER
CN-E11HM-DF	HDMI M - DVI F ADAPTER
CN-E09AF-HD15M	DVI-A F - VGA -M ADAPTER
CN-E09AM-HD15F	DVI-A M - VGA -F ADAPTER
CN-R02SPL-PNL	1RU RACK MOUNT PANEL - 3 SLOTS - USED WITH CASCADE PRODUCTS
CN-R02EXT-PA	POWER ADAPTER

CN-E11HDMI-FF

CN-E11HDMI-FFP

CN-E11HM-DF

DigitalXtreme EXTENDERS

Digital Xtreme Matrix- Card Cage

DXM-3232-G2	*32x32 digital media card cage matrix system - 6RU*
DXM-1616-G2	*16x16 digital media card cage matrix system - 5RU*
DXM-88-G2	*8x8 digital media card cage matrix system- 2RU*

- *Redundant Power Supplies are Available - Ask WPW Engineering -* **DXM-PWR-G2**
- *Easy access to the front or rear of the cage.*

Digital Xtreme - Cards

DXCI-4-HDMI-G2	*4 Input HDMI Card*
DXCO-4-HDMI-G2	*4 Ouput HDMI Card + Audio De-embed*
DXCI-4-HDBT1-G2	*4 Input HDbaseT Card- 230'*
DXCO-4-HDBT1-G2	*4 Output HDbaseT Card- 230'*
DXCI-4-HDBT2-G2	*4 Input HDbaseT Card- 600'*
DXCO-4-HDBT2-G2	*4 Output HDbaseT Card- 600'*
DXCI-4-2V2H-G2	*4 Input Dual VGA + Dual HDMI*
DXCI-4-VGA-G2	*4 Input VGA+Audio Card*

Matrix

ASP-44

ASP-44	*4x4 HDMI 3D Matrix - HDCP Compliant, RS-232 and IR Control*
ASP-88	*8x8 HDMI 3D Matrix - HDCP Compliant, RS-232 and IR Control* *Supports 7.1 Channel Digital Audio*

Splitters: Distribution Amplifiers with EDID

ASP-12H 1x2

*The ASP-12H 1x2 HDMI Distribution Amplifier with EDID Manager provides the most robust, cost effective and advanced HDMI splitter solution in the market, by which the high definition video and high quality audio can be transmitted to 2 different locations without losing quality. With automatic EDID learning, the ASP-12H will effectively avoid HDMI compatibility issues and offer the best HDMI support for HDMI splitters. It is compatible with PC resolutions up to 1920*1200@60Hz, 1080P, 2k and also supports HDTV.*

With 12-bit deep color video and high definition audio support, ASP-12H is suitable for high quality A/V broadcasting, digital signage and education applications.

ASP-14H 1x4

*ASP-14H 1x4 HDMI Distribution Amplifier with EDID Manager provides the most robust, cost effective and advanced HDMI splitter solution in the market, by which the high definition video and high quality audio can be transmitted to 4 different locations without losing quality. With automatic EDID learning, the ASP-14H will effectively avoid HDMI compatibility issues and offer the best HDMI support for HDMI splitters. It is compatible with PC resolutions up to 1920*1200@60Hz, 1080P, 2k and also supports HDTV. With 12-bit deep color video and high definition audio support, ASP-14H is suitable for high quality A/V broadcasting, digital signage and education applications.*

ASP-18H 1x8

*ASP-18H 1x8 HDMI Distribution Amplifier with EDID Manager provides the most robust, cost effective and advanced HDMI splitter solution in the market, by which the high definition video and high quality audio can be transmitted to 4 different locations without losing quality. With automatic EDID learning, the ASP-18H will effectively avoid HDMI compatibility issues and offer the best HDMI support for HDMI splitters. It is compatible with PC resolutions up to 1920*1200@60Hz, 1080P, 2k and also supports HDTV. With 12-bit deep color video and high definition audio support, ASP-18H is suitable for high quality A/V broadcasting, digital signage and education applications.*

HDMI and DVI 1.0 compliant
HDCP 1.2 compliant
340MHz (up to 16 bit Y-U-V 444 supported @ 1080P)
Video bandwidth: 10.2Gbps
Front panel LED indicator shows the user the system & switching information
Supports conversion of HDMI signaling to DVI
Built-in Gain compensation and synchronization signal proofread technology
Resolution up to 1080p or WUXGA [1920x1200@60]
Automatic EDID learning
Supports x.v.YCC, x.v.Color & Deep Color
Supports CEC bypassing communication channel
Supports Dolby Digital, DTS-HD and Dolby TrueHD audio formats
Wall-mount housing design for easy installation
Each output has its seperate HDCP Keys for full transmission.

AV CONVERTERS and TUNER

AV Converters

ASP-HTD

ASP-HTD HDMI to DVI & Audio Converter provides an easy and instant approach for converting digital HDMI to digital video (DVI-D) and both digital audio (S/PDIF) and analog stereo audio. With this module, HDMI based devices such as Blu-ray Disc players, PS3, DVD players, camcorders, or set-top boxes can readily connect to your PC LCD monitor and PC speakers at lowest cost. This device also enables users to connect full digital video and audio to DVI enabled monitor and S/PDIF equipped audio receiver and amplifier, and make the highest compatibility to your home theater devices.

ASP-VTH

ASP-VTH offers an easy and instant approach for converting analog PC video (VGA) with either digital audio (S/PDIF) or analog stereo audio to digital HDMI. With this module, VGA based devices such as PC with S/PDIF or analog stereo audio can readily connect to your HDMI TV. With such a convenience, presentations, demonstrations, or digital signage become easier and more cost effective.

ASP-DTH

ASP-DTH DVI & Audio to HDMI Converter provides an easy and instant approach for converting digital video (DVI-D) and both digital audio (S/PDIF) and analog stereo audio to digital HDMI. With this module, DVI based devices such as PC with S/PDIF or analog stereo audio can readily connect to your HDMI TV at lowest cost.

Tuner

V-TUNE PRO HD

4 TUNERS IN 1 BOX

The V-Tune Pro HD delivers a total tuning solution for any integrated system which requires IPTV, ATSC, QAM, or NTSC. The tuner is capable of decoding MPEG2, MPEG4, H.264, and VC-1 with resolutions up to 1080p on both the LAN and the RF connections. The VTune Pro HD is integrator-friendly with IR, RS-232 and IP-based control. A host of video output ports will support composite video, s-video, component, and HDMI. Audio is provided with unbalanced stereo RCA connections, S/PDIF, and optical. The VTune Pro HD defines versatility as it can be fit into nearly any integrated system topology. There is no other tuner on the market which can support all these features at a cost effective price. Competitive white papers are available upon request.

- *IPTV (UDP/RTP Multicast and Unicast)*
- *ATSC/QAM Digital High Definition Tuning*
- *NTSC Analog Tuning*
- *H.264, MPEG 4, MPEG2, and VC-1 up to 1080p*
- *Video, S-Video, Component, and HDMI Outputs*
- *Resolutions: 480i, 480p, 720p, 1080i, 1080p*
- *Stereo L/R, S/PDIF, and Optical Audio Outputs*
- *Dolby Digital Surround Sound*
- *OSD Menus, Closed Captioning, V-Chip, & EPG*
- *1RU Rack Mount Ears and IR Remote Included*
- *RS-232 / LAN / IR Remote Control*
- *Firmware Upgradeable via USB port or LAN*
- *Built in Web Page Remote Control*

AV PROCESSORS & SCALERS

VIDEO WALL PROCESSORS

DIDO-LT

DIDO LT is the ideal video wall processor when budget is a concern, but sacrificing quality is not an option. Integrators can design video walls with up to 64 monitors. DIDO LT's image quality is visibly superior to much more expensive video wall processors and it gives any integrator the ability to produce a high quality video wall with ease.
On-screen display menus make the DIDO LT a breeze to set up. Input and output resolutions are completely customizable to match the displays optimal resolutions. User presets allow for simple manipulation of the video wall. You can easily set it up to go from a single large image shown across all monitors to unique images on several groups of monitor.

DIDO-JR

DIDO Jr. is the ideal video wall processor and video image rotation engine. Integrators can design video walls with up to 64 monitors and the monitors can even be mounted in portrait position. DIDO Jr's image quality is visibly superior to much more expensive video wall processors and it gives any integrator the ability to produce a high quality video wall. On-screen display menus make the DIDO Jr. a breeze to set up. Input and output resolutions are completely customizable to match the displays optimal resolutions. User presets allow for simple manipulation of the video wall. You can easily set it up to go from a single large image shown across all monitors to unique images on several groups of monitor.

DIDO-PRO

The DIDO Pro is an extremely compact and powerful, multipurpose video processor. It is a high resolution, quad image scaler with the ability to rotate the displayed image windows in ninety degree increments.
DIDO Pro can show up to 4 high resolution/full motion images on a single display with great flexibility in any format. Up to 6 inputs can be selected using the included IR remote or serial control with Aurora's WACI NX or other high end control systems. Store up to 99 presets and link together multiple DIDO's for control via a single RS-232 port.

AV Scaler

ASP-S123V

The ASP-S123V is a presentation scaler switcher designed for multi-signal processing of Composite Video, S-Video, Component Video (YPbPr), VGA (Computer Graphics), and HDMI inputs which can be scaled to 1080p in VGA/HDMI format. It has an integrated HDBaseT extender allowing the output to extend up to 230ft [70m] at 1080p 60Hz. In addition, the microphone input, and 20 Watt amplifier makes the ASP-S123V a complete cost effective solution for education, commercial, and digital signage.

DIDO - INCLUDED ACCESSORIES

PS0019-12	*12vDC 3 Amp power supply adapter*
CA0006-6	*DIDO RS-232 Control cable*
CA0007-6	*DIDO Audio breakout cable*
IRC0008	*DIDO IR Remote Control*
CA0009-4	*S-Video to Composite Adapter cable*

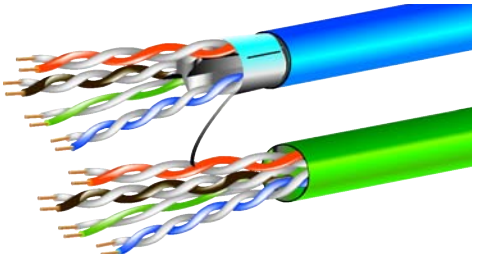
DIDO -Optional Accessories

CA0020-1	*DVI-I to DVI-D breakout cable*
CA0022-1	*DVI-I to DVI-D RCA breakout cable*
CA0021-1	*DVI-I to DVI-D BNC breakout cable*

CATEGORY 5E CABLES

Cables
Category 5E

APPLICATIONS:
Indoor for:
- 10/100 BaseT
- HDBaseT - 100ft (330m)



Category 5E UTP and F/UTP

Catalog No.	No. of Pairs	Conductor Type & Nom. D.C.R	Insulation Type & Thickness Inches	Shielding	Jacket Type & Thickness Inches	Nom. O.D. Inches	NEC Type	Nom. Capacitance & Impedance	Jacket Color
4245	4 Pair	24 AWG Solid 26 Ω/Mft	Polyolefin	None UTP	PVC	.191	CMR	Nom. Cap. 14 pf/ft* Nom. Imp 100Ω	GY, BL, WH, BK, GN, OR, YE, PK, SGN
254245	4 Pair	24 AWG Solid 26 Ω/Mft	Flame Retardant Polyolefin/ FEP	None UTP	Plenum Thermo-Plastic	.205	CMP	Nom. Cap. 14 pf/ft* Nom. Imp 100Ω	GY, BL, WH, BK, GN, OR, YE, PK
M57562	4 Pair	24 AWG Solid 26 Ω/Mft	Thermo-Plastic	None UTP Water Blocked	UV Resistant PE	.267	Armored Outdoor	Nom. Cap. 14 pf/ft* Nom. Imp 100Ω	UV Black
4245-OSP	4 Pair	24 AWG Solid 26 Ω/Mft	Thermo-Plastic	None UTP Water Blocked	UV Resistant PE	.255	Outdoor	Nom. Cap. 14 pf/ft* Nom. Imp 100Ω	UV Black
4245-IO	4 Pair	24 AWG Solid 26 Ω/Mft	Thermo-Plastic	None UTP Water Blocked	UV Resistant Polyolefin	.251	Indoor/ Outdoor CM	Nom. Cap. 14 pf/ft* Nom. Imp 100Ω	UV Black
4245F-GY **4245F-BL**	4 Pair	24 AWG Solid 26 Ω/Mft	Thermo-Plastic	100% AL.foil F/UTP	PVC	.232	CMR	Nom. Cap. 14 pf/ft* Nom. Imp 100Ω	GRAY BLUE
254245F-GY **254245F-BL**	4 Pair	24 AWG Solid 26 Ω/Mft	Flame Retardant Polyolefin/ FEP	100% AL.foil F/UTP	Plenum Thermo-Plastic	.218	CMP	Nom. Cap. 14 pf/ft* Nom. Imp 100Ω	GRAY BLUE

Modular Plugs
Category 5E

CATEGORY 5E MODULAR PLUGS	
Catalog No.	Description
32-EZP	8 POSITION CAT 5E MODULAR PLUG- BAGS OF 50
32-EZSTP	F/UTP Shielded CAT 5E MODULAR PLUG- BAGS OF 50
TL-EZRJ45	CRIMP TOOL FOR 32-EZP
32-1900-xx	BOOTS: xx: WH, BK, BU, RD, GY, OR, YE, GN

- Meet or exceed TIA-568-C.2
- Supports Cat 5E 100 meter channel performance
- Overall solid shielding design
- Solid or Stranded wires
- EZ Termination
- Termination Tool: TL-EZRJ45

CAT 5E CABLE ACCESSORIES

RJ45 Jacks
Category 5E

KJS458MT-C5E-WH

CATEGORY 5E JACKS	
Catalog No.	Description
KJ458MT-C5E-xx	SignaMax RJ45 Cat5E Jack- xx: WH, BK, BL, GY, GN, OR, RD, YE
KJS458TL-C5E	SignaMax RJ45 Cat5E Jack - F/UTP Shielded - Tool less
CATEGORY 5E JACKS - Tool less	
CN-705xx	Cat5E Toolless RJ45 Jacks - xx: BK, BL, GN, RD, YE, WH, OR
CATEGORY FEED THRU ADAPTERS	
KRJ45/5S	Category 5E Feed Thru Adapter

Patch Cables
Category 5E

CATEGORY 5E ASSEMBLIES - SNAG-PROOF		
Catalog No.	Length	Jacket Colors
C5EC-114CC-3	3 Foot	SIGNAMAX REPLACE CC: BK BU, GY, RD, WH, YE
C5EC-114CC-6	6 Foot	
C5EC-114CC-10	10 Foot	
C5EC-114CC-15	15 Foot	
C5EC-114CC-20	20 Foot	
C5EC-114CC-25	25 Foot	

CATEGORY 5E ASSEMBLIES - ECONOMY		
Catalog No.	Length	Jacket Colors
WP-66CC-3	3 Foot	REPLACE CC: 70- GRAY 72- BLUE 74- RED
WP-66CC-7	7 Foot	
WP-66CC-10	10 Foot	
WP-66CC-15	15 Foot	
WP-66CC-20	20 Foot	
WP-66CC-25	25 Foot	

CATEGORY 5E F/UTP ASSEMBLIES		
Catalog No.	Length	Jacket Colors
C5ECS-314GY-3	3 Foot	SIGNAMAX Gray
C5ECS-314GY-6	6 Foot	
C5ECS-314GY-10	10 Foot	
C5ECS-314GY15	15 Foot	
C5ECS-314GY-20	20 Foot	
C5ECS-314GY-25	25 Foot	

24458MD-C5E

Patch Panels
Category 5E

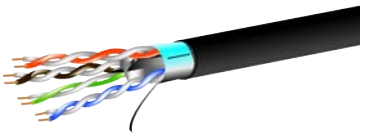
CATEGORY 5E PATCH PANELS	
Catalog No.	Description
12458MD-C5E	12 PORT CAT 5E PATCH PANEL 1.75 - 1RU
24458MD-C5E	24 PORT CAT 5E PATCH PANEL 1.75 - 1RU
48458MD-C5E	48 PORT CAT 5E PATCH PANEL 3.50 - 2RU
48458HD-C5E	48 PORT CAT 5E PATCH PANEL 1.75 - 1RU high density
24458S-C5E	24 PORT CAT 5E Shielded FTP PATCH PANEL 1.75 - 1RU
12458M-C5E	12 PORT MINI PANEL W/89D BRACKETS
12458H-C5E	12 PORT MINI HINGED PANEL
SMB-350	PANEL MOUNT CABLE MANAGEMENT

Installation Tools

NETWORK CONNECTIVITY TOOLS	
Catalog No.	Description
TL-110/66	110 PUNCHDOWN TOOL
TL-3650	110 ADJUSTABLE PUNCHDOWN TOOL
TRJ45P	RATCHET TYPE RJ45 CRIMP TOOL
TL-EZRJ45PRO	EZ RATCH MODULAR PLUG CRIMP TOOL
KJMT-8600	SIGNAMAX- MULTIPAIR PUNCHDOWN TOOL

Cables

Category 6A and Category 6



HDBT™

APPLICATIONS:
Indoor for:
- 10GBaseT -100m
- HDBaseT - 183m - 600ft
  using DXE-CAT-2S and 2SL Extenders

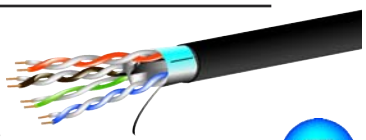
NEW

Category 6A F/UTP- Test to 750Mhz - 10G

Catalog No.	No. of Pairs	Conductor Type & Nom. D.C.R	Insulation Type & Thickness Inches	Shielding	Jacket Type & Thickness Inches	Nom. O.D. Inches	NEC Type	Nom. Capacitance & Impedance	Jacket Color
4246AF	4 Pair	23 AWG Solid 24 Ω/Mft	Thermo-Plastic	F/UTP	PVC	.303	CMR	Nom. Cap. 14 pf/ft* Nom. Imp 100Ω	Black
254246AF	4 Pair	23 AWG Solid 24 Ω/Mft	FEP	F/UTP	Plenum Thermo-Plastic	.305	CMP	Nom. Cap. 14 pf/ft* Nom. Imp 100Ω	Black

HDBT™

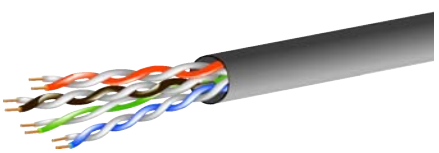
APPLICATIONS:
Indoor for:
- 10GBaseT - 45m
- 1GBaseT - 100m
- HDBaseT - 153m - 500ft
  using DXE-CAT-2S and 2SL Extenders



NEW

Category 6 F/UTP- Test to 550Mhz

Catalog No.	No. of Pairs	Conductor Type & Nom. D.C.R	Insulation Type & Thickness Inches	Shielding	Jacket Type & Thickness Inches	Nom. O.D. Inches	NEC Type	Nom. Capacitance & Impedance	Jacket Color
4246F	4 Pair	23 AWG Solid 24 Ω/Mft	Thermo-Plastic	F/UTP	PVC	.290	CMR	Nom. Cap. 14 pf/ft* Nom. Imp 100Ω	Black
254246F	4 Pair	23 AWG Solid 24 Ω/Mft	FEP	F/UTP	Plenum Thermo-Plastic	.280	CMP	Nom. Cap. 14 pf/ft* Nom. Imp 100Ω	Black



Category 6 UTP

Catalog No.	No. of Pairs	Conductor Type & Nom. D.C.R	Insulation Type & Thickness Inches	Shielding	Jacket Type & Thickness Inches	Nom. O.D. Inches	NEC Type	Nom. Capacitance & Impedance	Jacket Color
4246	4 Pair	23 AWG Solid 24 Ω/Mft	Polyolefin	None UTP	PVC	.220	CMR	Nom. Cap. 14 pf/ft* Nom. Imp 100Ω	GY, BL, WH, BK, GN
254246	4 Pair	23 AWG Solid 24 Ω/Mft	Flame Retardant Polyolefin/ FEP	None UTP	Plenum Thermo-Plastic	.225	CMP	Nom. Cap. 14 pf/ft* Nom. Imp 100Ω	GY, BL, WH, BK, GN

4246-OSP - CAT 6 OUTDOOR
4246-IO- CAT 6 INDOOR/ OUTDOOR CM RATED

CAT6 and CAT6A CABLE ACCESSORIES

Modular Plugs

Category 6A and Category 6

CN-1401405012

CN-111S90H34

CATEGORY 6A F/UTP Modular Plug	
Catalog No.	Description
CN-1401405012	Cat6A F/UTP Modular Plug - Tool less Plug - 10G Transmission
CATEGORY 6 F/UTP Modular Plug	
CN-EZSTP-EG	Cat6 F/UTP Modular Plug - EZ PLUG
CN-111S90H34	Cat6 F/UTP Modular Plug
CATEGORY 6 UTP Modular Plug	
32-6EZP	Cat6 UTP EZ Plug Modular Plug
CABLE/CONNECTOR BOOTS	
32-1900-xx	CAT6 UTP BOOTS - xx: WH,BK, BU, RD, GY, OR, YE, GN
CN-B0051	CAT 6 F/UTP BLACK BOOTS

Modular Plug Crimp Tool	
Catalog No.	Description
TL-EZRJ45	Modular Crimp Tool

RJ45 Jacks

Category 6A and Category 6

KJS458TL-C6A

CATEGORY 6A F/UTP Jacks	
Catalog No.	Description
KJS458TL-C6A	SignaMax RJ45 Cat6A F/UTP- 10G - Metal - Tool less
CATEGORY 6 F/UTP Jacks	
KJS458TL-C6C	SignaMax RJ45 Cat6 F/UTP- Metal - Tool less
CATEGORY 6 UTP JACKS	
KJ458MT-C6C-xx	SignaMax Cat6 Jack- xx: IV, WH, BK, BL, GY, GN, OR, RD, YE
CN-706xx	Cat6 Tool less RJ45 Jacks - xx: BK, BL, GN, RD, YE, WH, OR

Patch Panels

Category 6 and 6A

CATEGORY 6A UTP PATCH PANELS	
Catalog No.	Description
24458MD-C6A	24 PORT CAT 6A UTP PATCH PANEL 1.75 - 1RU
48458MD-C6A	48 PORT CAT 6A UTP PATCH PANEL 3.50 - 2RU
48458HD-C6A	48 PORT CAT 6A UTP PATCH PANEL 1.75 - 1RU
CATEGORY 6A UTP ANGLED PATCH PANELS	
24458A-C6A	24 PORT CAT6A UTP ANGLED 1.75" - 1RU
48458A-C6A	48 PORT CAT6A UTP ANGLED 3.50" - 2RU
CATEGORY 6A F/UTP PATCH PANELS	
24458S-C6A	24 PORT CAT6A F/UTP 10G - 1.75" - 1RU
48458S-C6A	48 PORT CAT6A F/UTP 10G - 3.50" - 2RU

CATEGORY 6 UTP PATCH PANELS	
Catalog No.	Description
12458MD-C6C	12 PORT CAT 6 UTP PATCH PANEL 1.75 - 1RU
24458MD-C6C	24 PORT CAT 6 UTP PATCH PANEL 1.75 - 1RU
48458MD-C6C	48 PORT CAT 6 UTP PATCH PANEL 3.50 - 2RU
48458HD-C6C	48 PORT CAT 6 UTP PATCH PANEL 1.75 - 1RU
CATEGORY 6 UTP ANGLED PATCH PANELS	
24458A-C6C	24 PORT CAT6 UTP ANGLED 1.75" - 1RU
48458A-C6C	48 PORT CAT6 UTP ANGLED 3.50" - 2RU
CATEGORY 6 F/UTP PATCH PANELS	
24458S-C6C	24 PORT CAT6 F/UTP SHIELDED - 1.75" - 1RU
CATEGORY 6 UTP MINI WALL MOUNT PANELS	
12458M-C6C	CAT 6 MINI PANEL w/89D Bracket
12458MH-C6C	CAT 6 MINI PANEL Hinged

CAT6 AND HDMI ASSEMBLIES

Patch Cables

Category 6A and Category 6

Category 6A - Only offered in F/UTP Version

CAT6A F/UTP ASSEMBLIES - SNAG-PROOF		
Catalog No.	Length	Jacket Colors
C6AS-314GY-3FB	3 Foot	SIGNAMAX Color: Gray
C6AS-314GY-7FB	7 Foot	
C6AS-314GY-10FB	10 Foot	
C6AS-314GY-15FB	15 Foot	
C6AS-314GY-20FB	20 Foot	
C6AS-314GY-25FB	25 Foot	

Category 6

CATEGORY 6 UTP ASSEMBLIES - SNAG-PROOF		
Catalog No.	Length	Jacket Colors
C6C-114CC-3FB	3 Foot	SIGNAMAX REPLACE CC: BK BU, GY, RD, WH, YE
C6C-114CC-7FB	7 Foot	
C6C-114CC-10FB	10 Foot	
C6C-114CC-15FB	15 Foot	
C6C-114CC-20FB	20 Foot	
C6C-114CC-25FB	25 Foot	

CAT6 F/UTP ASSEMBLIES - SNAG-PROOF		
Catalog No.	Length	Jacket Colors
C6CS-314GY-3FB	3 Foot	SIGNAMAX Color: Gray
C6CS-314GY-7FB	7 Foot	
C6CS-314GY-10FB	10 Foot	
C6CS-314GY-15FB	15 Foot	
C6CS-314GY-20FB	20 Foot	
C6CS-314GY-25FB	25 Foot	

Patch Cables

HDMI to HDMI

ECONOMY HDMI 1.4 ASSEMBLIES		
Catalog No.	Length	Jacket Colors
CN-40HDMI-3	3 Foot	Economy HDMI
CN-40HDMI-6	6 Foot	
CN-40HDMI-10	10 Foot	
CN-40HDMI-15	15 Foot	
CN-40HDMI-25	25 Foot	
CN-40HDMI-50	50 Foot	

PLENUM HDMI ASSEMBLIES		
Catalog No.	Length	Key Features
CN-CPHMHM-15	15 Foot	Plenum Rated 26AWG - (15'-25') 24AWG (35'-50') UL Listed CL2P
CN-CPHMHM-25	25 Foot	
CN-CPHMHM-35	35 Foot	
CN-CPHMHM-50	50 Foot	

SUPER HI-REZ HDMI ASSEMBLIES		
Catalog No.	Length	Jacket Colors
CN-SHRHDMI-1m	1 meter	HDMI "Deep Color" 1080p 12bit Support HDMI Cat2 -7.5m Heavy duty 22AWG UL Listed CL2
CN-SHRHDMI-2m	2 meter	
CN-SHRHDMI-3m	3 meter	
CN-SHRHDMI-5m	5 meter	
CN-SHRHDMI-10m	10 meter	
CN-SHRHDMI-15m	15 meter	
CN-SHRHDMI-20m	20 meter	
CN-SHRHDMI-25m	25 meter	
CN-SHRHDMI-30m	30 meter	
CN-SHRHDMI-40m	40 meter	

VGA Extender
Over Category 5E/6 Cables
AS-CAT1-VGA

With only one cost effective Cat-5/5e/6 cable, the AS-CAT1-VGA lets you extend VGA (at WUXGA) or 720p component video, bi-directional IR control and half-duplex serial RS-232 at the same up to 1,000ft (330m). The AS-CAT1-VGA comes as a set of a transmitter and a receiver. The transmitting unit AS-CAT1-VGA-TX is installed near the signal source, and the receiving unit AS-CAT1-VGA-RX is placed near the desired VGA display. With the built-in equalization and signal gain control, the transmission path can be adjusted to adapt the cable quality and video bandwidth. Furthermore, the VGA RGB delay control [de-skew] function provides the compensation in arrival time among red, green and blue signal channels due to long transmission via normal Cat-5/5e/6 cable. With a commonly obtainable VGA-component breakout cable connected to the VGA port, the extender can support the component video for 1,000ft (330m) as well.

Supports up to WUXGA [1920x1200@60] or UXGA [1600x1200@60] to 1,000ft (330m)
Supports 720p component video signal to 1,000ft (330m)
Supports RS-232 half-duplex & bi-directional IR pass-through
Supports analog stereo audio and digital S/PDIF stereo audio
Video and audio local out on transmitting unit for easy monitoring
Adjustable equalization and gain control on receiving unit for signal tuning
De-skew compensation for RGB delay control
Wall mounting case & interlocked power jack

VGA Switch - 4x1 RGBHV Switch

AS-41V

The AS-41V is a 4 x 1 VGA switcher with front panel and RS-232 control. In addition, the AS-41V has volume, bass, and treble control along with break away switching. Its small and compact size allows it to fit nicely in carts, racks, and under tables.

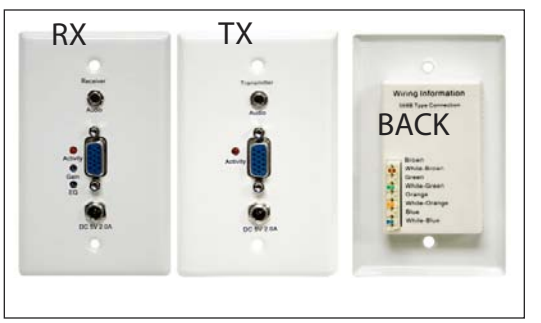
- *4x1 RGBHV Switcher*
- *Max Resolution 3200x2400 MHz*
- *Volume Control*
- *Bass & Treble Control*
- *Audio Break-away Switching*
- *H/V Sync Skew-free*
- *Front Button Control*
- *RS-232 Control*

Digital Signage Products - Economy
VGA over NanoSkew West Penn Cable

VGA + Audio Extender over NanoSkew Cables	
Catalog No.	Description
CN-R02EXT-C5E35	VGA + Audio UTP Extender - Box Style 1000ft. over NanoSkew WPW Cables (TX & RX Included)
CNR02EXTC5E35T	VGA + Audio UTP Extender - Box Style - TX ONLY
CNR02EXTC5E35R	VGA + Audio UTP Extender - Box Style - RX ONLY

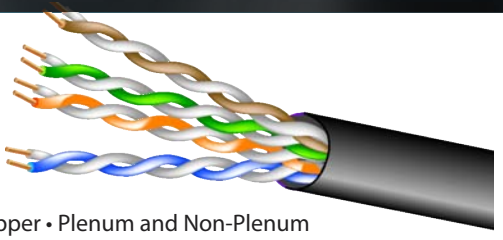
CN-R02EXT-C5E35

VGA + Audio Extender over NanoSkew Cables - Wall Plate	
Catalog No.	Description
CN-R02EXT-35FP	VGA + Audio UTP Extender - Wall Plate - 110 STYLE 1000ft. over NanoSkew WPW Cables (TX & RX Included)
CN-R02TEXT-35JP	VGA + Audio UTP Extender - Wall Plate -RJ45 STYLE 1000ft. over NanoSkew WPW Cables (TX & RX Included)
CN-R02EXT-35JT	VGA + Audio UTP Extender - Wall Plate -RJ45 STYLE TX ONLY
CN-R02EXT-35JR	VGA + Audio UTP Extender - Wall Plate -RJ45 STYLE RX ONLY



Digital Signage Video Cable

4 Pair 24 AWG UTP- NanoSkew WPW Cable



Applications:

Indoor for:

- UTP Based Video
- RGB over UTP
- Non-Plenum Versions for use in vertical run in a shaft and for general purpose communications use in accordance with Article 800 of the NEC
- Plenum Version for use in air handling ducts and spaces in accordance with Article 800 of the NEC

Description:

- ASTM Solid Bare Copper • Plenum and Non-Plenum Versions • 4 Pair Unshielded Twisted Pair Construction
- Overall Jacket

Rating:

- NEC Type CMR and CMP
- (UL) Listed
- Meets 300V requirements as specified in the NEC
- Flame Rating: UL1666 and NFPA262 Smoke & Flame Test

NOT USED IN DATA APPLICATIONS

Standard spool size 1000ft.

Catalog No.	No. of Pairs	Conductor Type & Nom. D.C.R	Insulation Type & Thickness Inches	Shielding	Jacket Type & Thickness Inches	Nom. O.D. Inches	NEC Type	Nom. Capacitance	Jacket Color
NS424	4 Pair	24 AWG Solid 26 Ω/Mft	Thermo-Plastic	None UTP	PVC	.190	CMR	Nom. Cap. 14 pf/ft* Nom. Imp 100Ω	BLACK
NS25424	4 Pair	24 AWG Solid 26 Ω/Mft	Thermo-Plastic Plenum	None UTP	Thermo-Plastic	.185	CMP	Nom. Cap. 14 pf/ft* Nom. Imp 100Ω	BLACK
Indoor/Outdoor									
NS424-IO	4 Pair	24 AWG Solid 26 Ω/Mft	Thermo-Plastic Plenum	None UTP Water-blocking	Thermo-Plastic	.250	CM	Nom. Cap. 14 pf/ft* Nom. Imp 100Ω	BLACK

EXTRON	WPW
22-141-03 UTP23SF-4	NS424
22-142-03 UTP23SF-4P	NS25424

Connectors see page 9-10

Physical Characteristics	
Cable Weight	PL- 23 lbs/1000ft NPL- 20 lbs/1000ft
Bend Radius	1" Min (4 x Cable O.D.)
Nom. Vel. of Prop.	PL- 72% NPL - 68%
Pulling Tension	25 lbf Max.

Propagation Delay (Skew) 2.2ns/100m Nominal

Color Code		
Pair No.	1st Cond. Base/Band	2nd Cond.
1	White/Blue	Blue
2	White/Orange	Orange
3	White/Green	Green
4	White/Brown	Brown
JACKET: Maroon		

Notes:
West Penn Wire's low skew video twisted pair cable is a proven cost-effective alternative to coax for RGB video applications. This cable was developed in response to the increasing digital signage applications for marketing and advertising. Low skew cable supports longer cable runs than currently available with coax or data cables, has a smaller outside diameter than coax, and can be hidden via plenums or in walls. Made with 24 AWG solid copper cable, it is listed by Underwriters Laboratories as either plenum (CMP) or riser (CMR) applications

VGA- HD15 To HD15
SVGA ASSEMBLIES

HD15(M) to HD15(M) Economy		
Catalog No.	Description	Length (FT)
CN-VGAMM-xx	HD15 Male to HD15 Male	Replace xx with: 6,10,25,50

VGA 5 - 25Awg RGB HD15(F) to HD15(M) Plenum		
Catalog No.	Description	Length (FT)
CN25SCRGHDFMxx	HD15 (F) to HD15 (M)	Replace xx with: 25,50,75,100,150

VGA 5 - 25Awg RGB HD15(M) to HD15(M) Plenum		
Catalog No.	Description	Length (FT)
CN25SCRGHDMMxx	HD15 (M) to HD15 (M)	Replace xx with: 25,50,75,100,150

VGA 5 - 25Awg RGB HD15(M) to HD15(M) Non-PLENUM		
Catalog No.	Description	Length (FT)
CN-5CRGHDMMxx	HD15 (M) to HD15 (M)	Replace xx with: 25,50,75,100,150

CN-VGAMM-xx

HD15 - VGA- with Audio 3.5mm
Cable Assemblies

VGA with Audio		
Catalog No.	Description	Length (FT)
CN-HDVGAAP-xx	VGA with Audio HD15 (M) + 3.5mm Audio	Replace xx with: 6,10,25

CN-HDVGAAP-xx

SVGA - HD15 +3.5mm + COMPOSITE VIDEO + L/R AUDIO
Cable Assemblies

VGA with Audio and Composite Video -L/R Audio		
Catalog No.	Description	Length (FT)
CN-VGAAVA-xx	VGA+AUDIO+VIDEO + L/R AUDIO	Replace xx with: 6,10,25,35,50
CN-25VGAAVA-xx	VGA+AUDIO+VIDEO + L/R AUDIO PLENUM	Replace xx with: 6,10,25,35,50

CN-VGAAVA-xx

AUDIO AMPLIFIER

AUDIO AMPLIFIER

AS-AMP1

AS-AMP1 is a small digital amplifier (Class D), with EQ control and MIC mixer function. It is in small enclosure but with powerful functions, including bridge connection, dual-mono, EQ control, microphone mixer, etc. Applications include classrooms, small meeting rooms, lecture halls, bars, etc.

USB EXTENDERS

USB Products

USB EXTENDERS

USB EXTENDERS	
Catalog No.	Description
CN-R042EXT-C5E	USB EXTENDER 2.0 BOX STYLE TX/RX
CN-R042HUB-104	USB HUB 2.0 1IN- 1OUT ON LOCAL- 4 REMOTE
CN-R042HUB-104A	USB HUB 2.0 1IN- 3OUT ON LOCAL- 1 OUT
CN-U04DB9-3	USB TO DB9 ADAPTER CABLE - 3FT.

CN-R042EXT-C5E

CN-R042HUB-104

CN-U04DB9-3

i- EXTENDERS

i-Pad Products

i-EXTENDERS - i-Pad Products	
Catalog No.	Description
CN-R09IPAD4IN1	i-PAD 4 IN 1 APPLE DIGITAL AV ADAPTER- HDMI, VGA, DVI, USB
CN-R09EXTIP-HSL	APPLE TO HDMI UTP BOX SET TX/RX EXTENDER
CN-R01EXT-HSLRX	HDMI RECEIVER ONLY BOX STYLE
CN-R01EXTL-RX-J	HDMI RECEIVER WALL PLATE RJ45 STYLE
CN-R09EXTIPHSLJ	APPLE TO HDMI UTP WALL PLATE SET TX/RX EXTENDER
CN-R02EXT-35JR	VGA + AUDIO WALL PLATE STYLE RX ONLY
CNR09EXTIPVGA35	APPLE TO VGA + AUDIO UTP BOX SET TX/RX EXTENDER

iPAD2/ iPHONE4s to HDMI over UTP Cables

ADDITIONAL ACCESSORIES

METAL WORK

WALL PLATES

CN-XX1GHDBT *1 Gang HDBaseT Port - CAT6 Shielded Jack*

Replace XX with: AC - Aluminum Clear
AB - Aluminum Black
AW - Aluminum White

Additional Metal Work can be completed by West Penn and their Partner RCI Custom.

Custom Wall Plates
Custom Panels
Custom Metal Modules

800-245-4964 West Penn Engineering or visit RCI Custom - www.rcicustom.com

ADDITIONAL PRODUCTS: West Penn

Audio Cables
Analog Video Cables
Additional Digital Video Cables
Connectors
Tools

For additional information on these products please visit:

www.westpenn-wpw.com

ADDITIONAL PRODUCTS: AURORA

IP Touchscreen Interfaces
IP Control Processors
IP Button Interfaces

For additional information on these products please visit:

www.auroramultimedia.com

ADDITIONAL PRODUCTS: SIGNAMAX

CATEGORY 5E, 6 AND 6A Patch panels
Ethernet Switches
Media Converters

For additional information on these products please visit:

www.signamax.com

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